

FIGURE 1

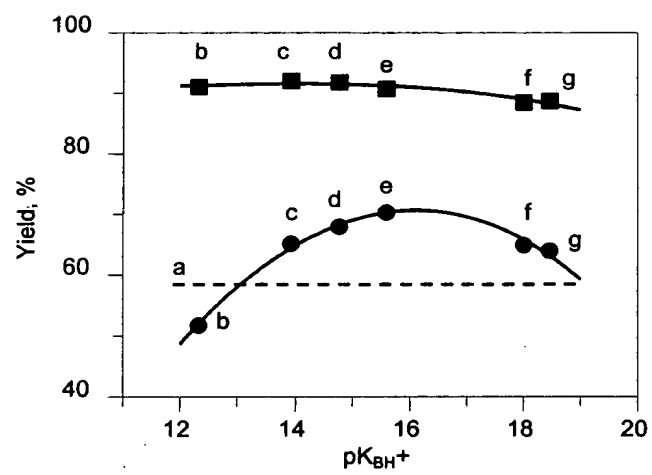


FIGURE 2

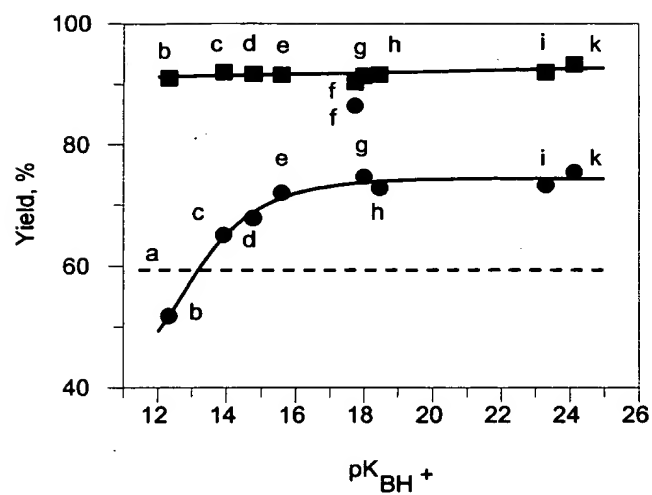


FIGURE 3

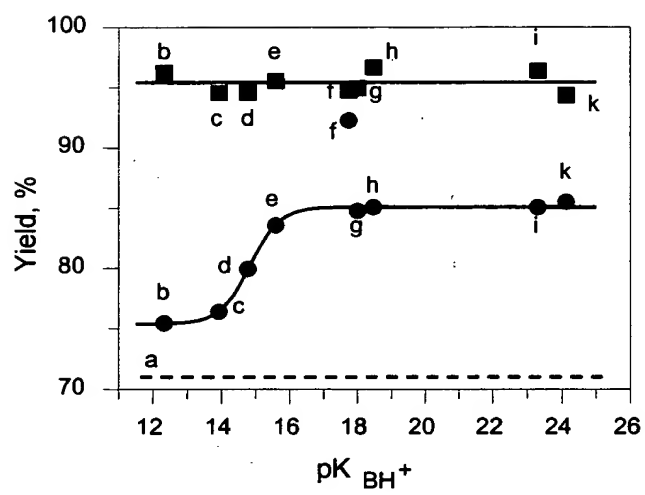


Figure 4.  $^{31}\text{P}$  NMR Spectrum of 3a in gel phase ( $\text{CD}_3\text{CN}$  as a liquid phase).

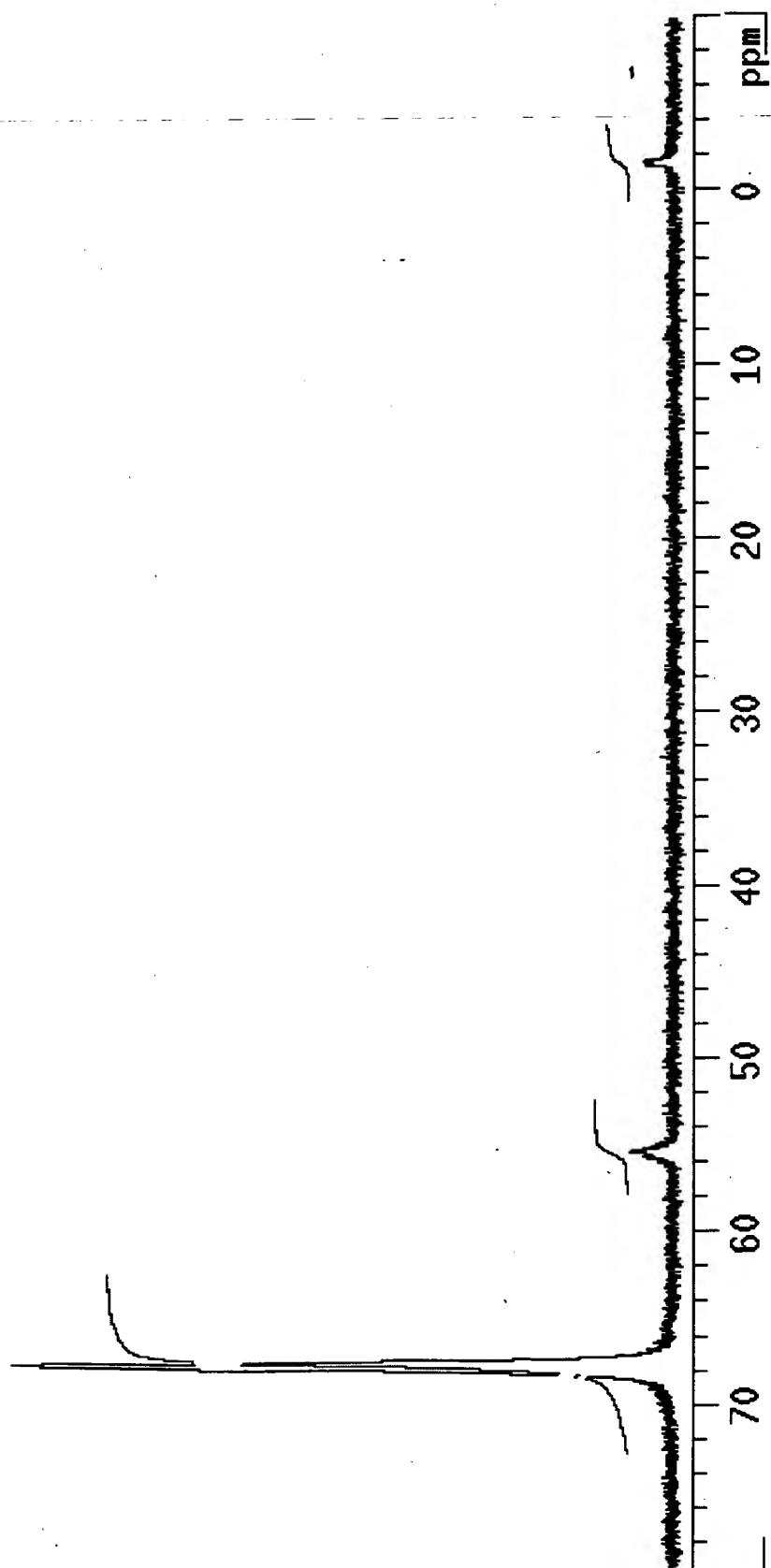


Figure 5.  $^{31}\text{P}$  NMR Spectrum of **4a** in Gel Phase (1M Piperidine in  $\text{CD}_3\text{CN}$  as a liquid phase).

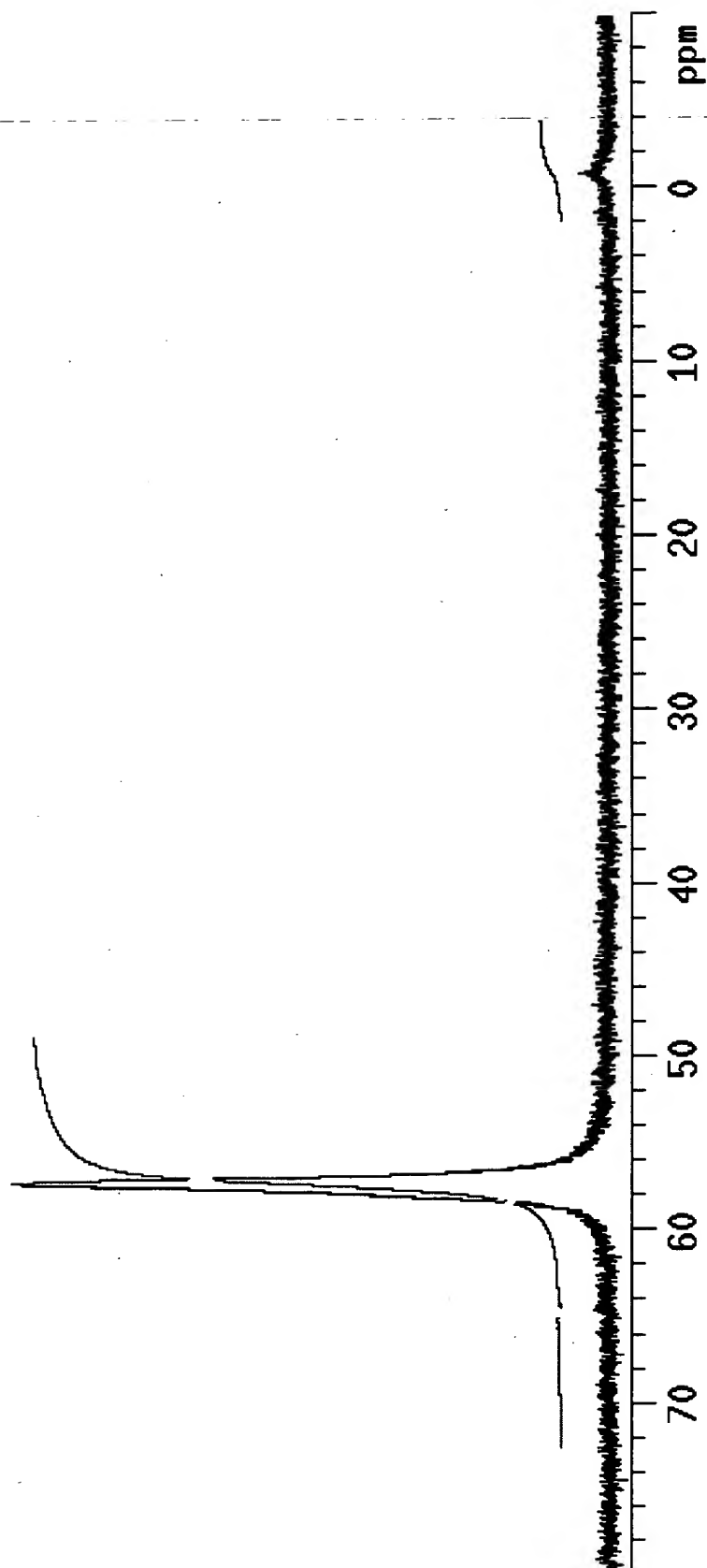


Figure 6.  $^{31}\text{P}$  NMR Spectrum of 6a in Gel Phase (5% Pyridine in  $\text{CD}_3\text{CN}$  as a liquid phase).

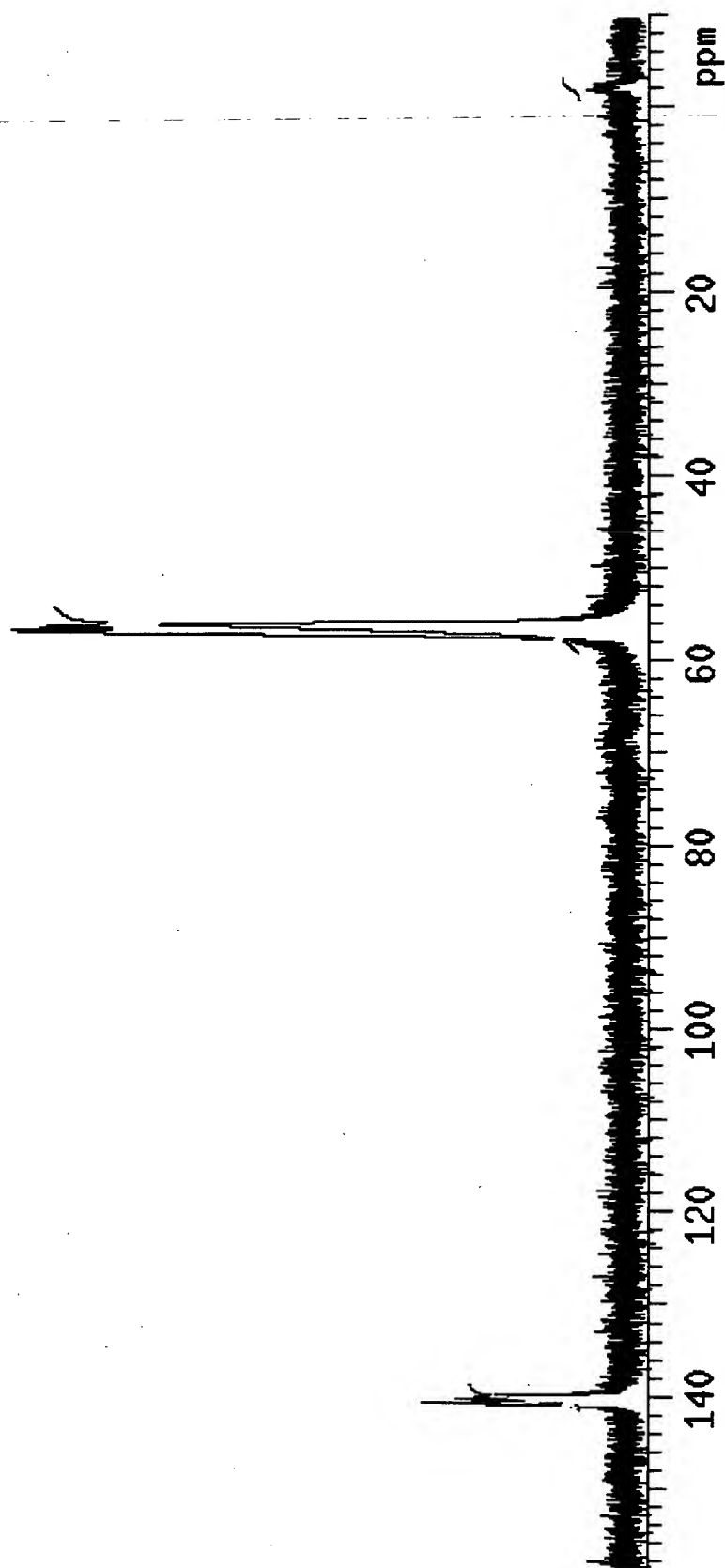


Figure 7.  $^{31}\text{P}$  NMR Spectrum of **7a** in Gel Phase (5% Pyridine in  $\text{CD}_3\text{CN}$  as a liquid phase).

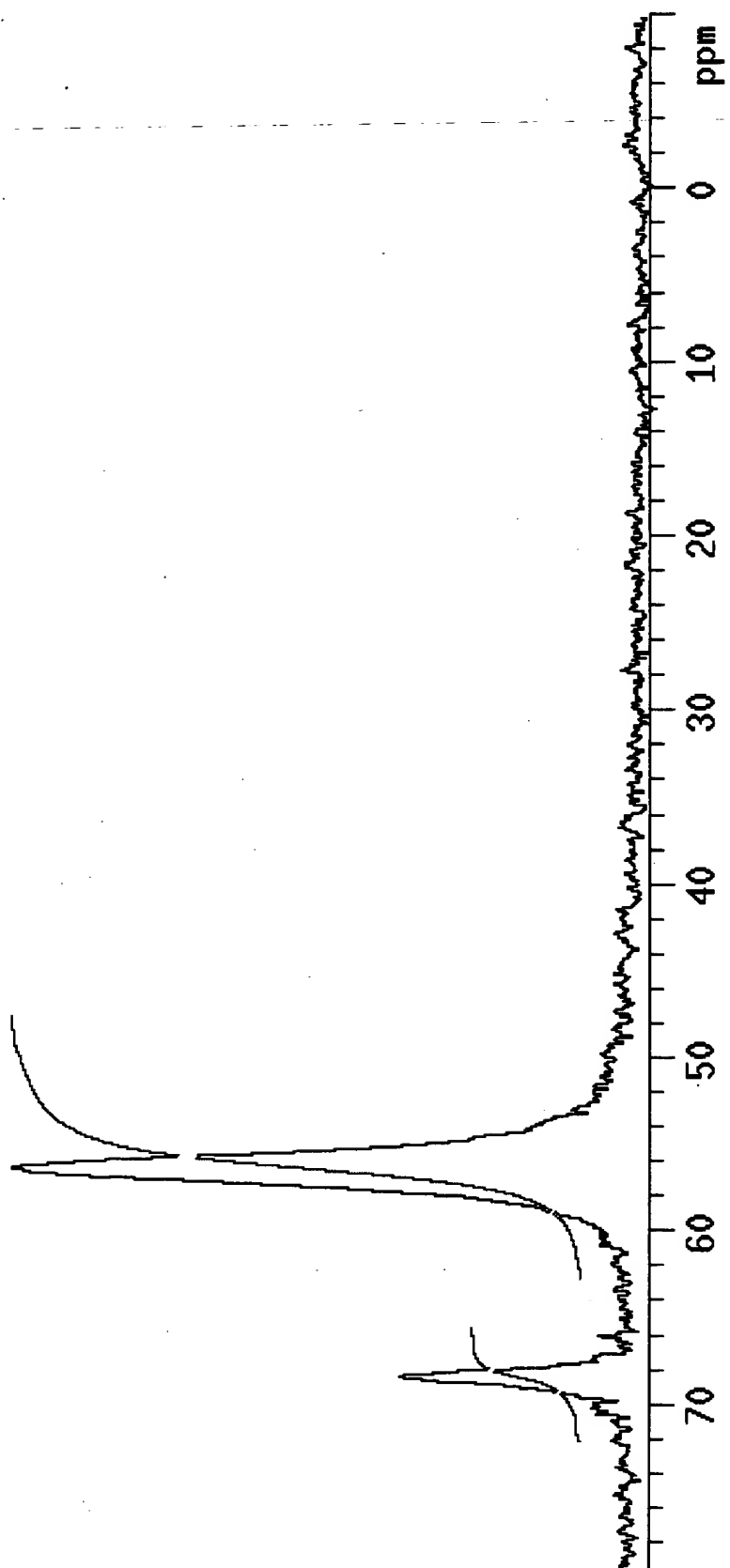


Figure 8.  $^{31}\text{P}$  NMR Spectrum of **8a** in Gel Phase (5% Pyridine in  $\text{CD}_3\text{CN}$  as a liquid phase).

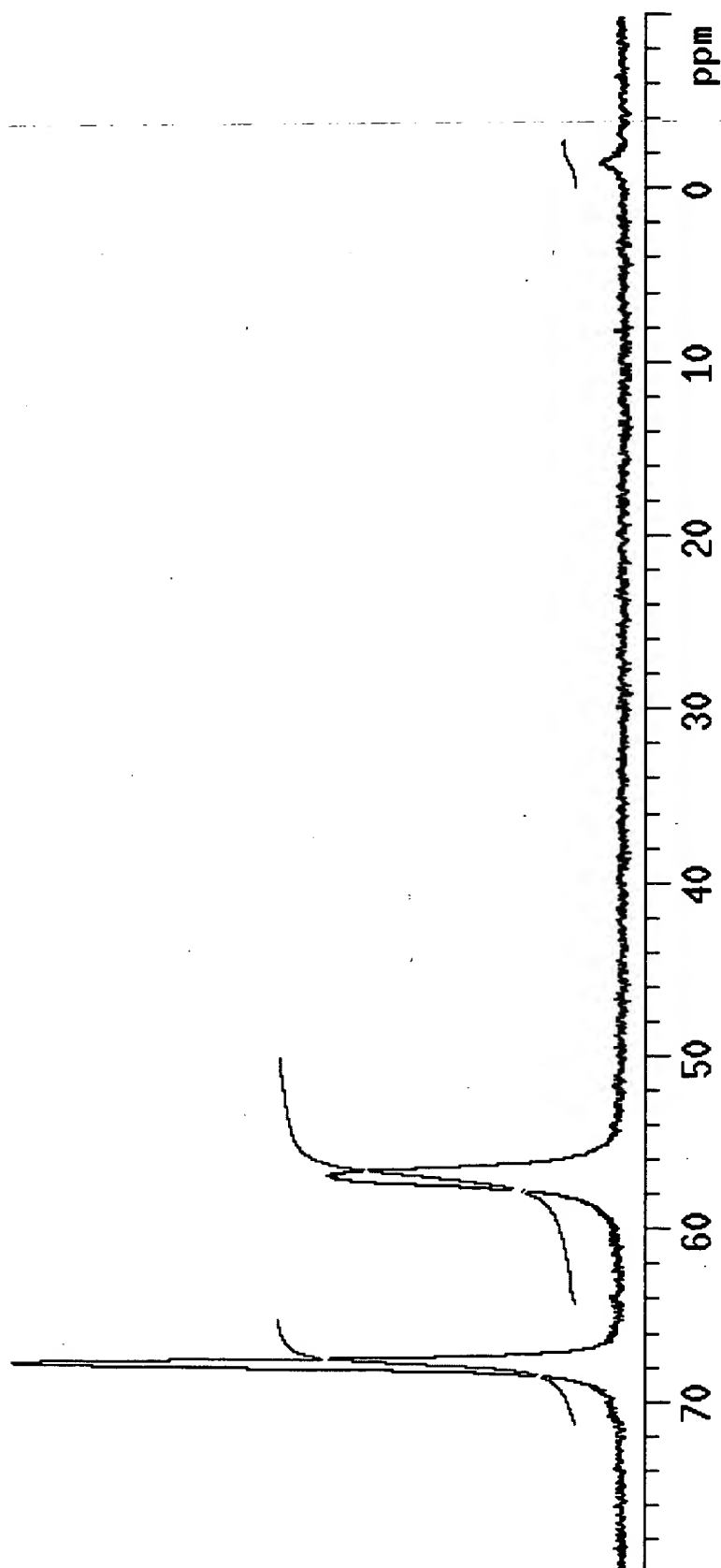




Figure 9. Reverse Phase HPLC Profile for Oligonucleotide **9a** Obtained Using the Standard Cycle (Crude Deprotection Mixture).

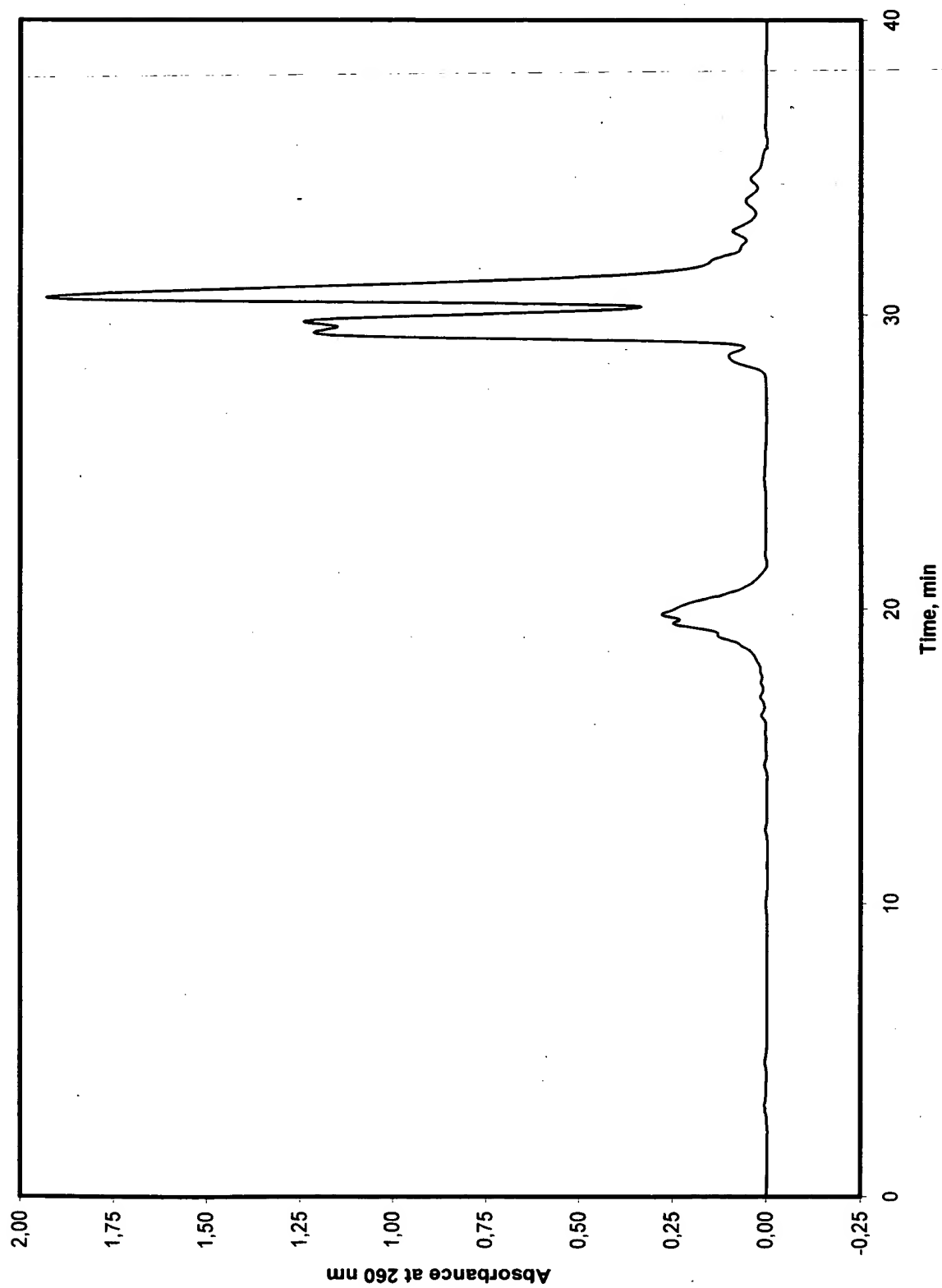


Figure 10.  $^{31}\text{P}$  NMR Spectrum of **4b** in Gel Phase (1M Piperidine in  $\text{CD}_3\text{CN}$  as a liquid phase).

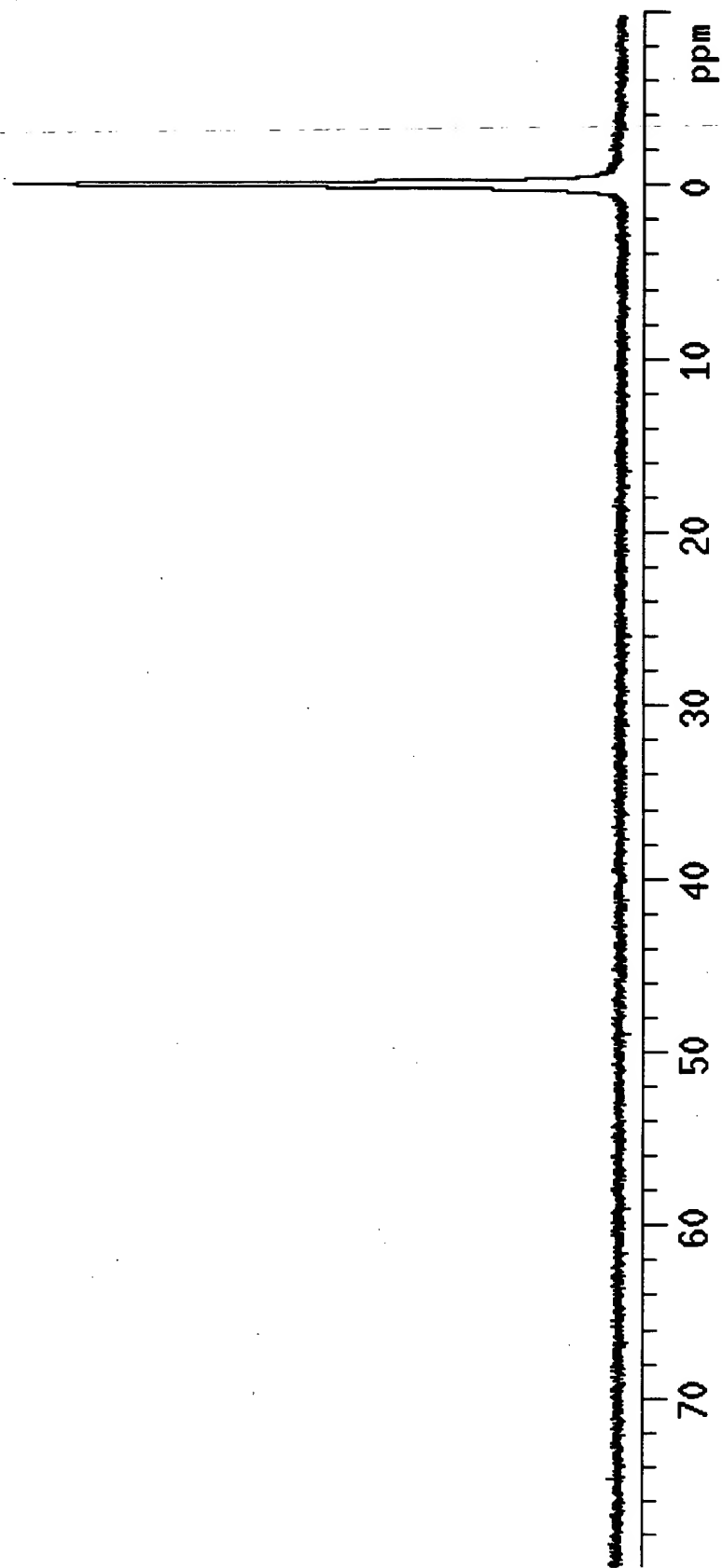
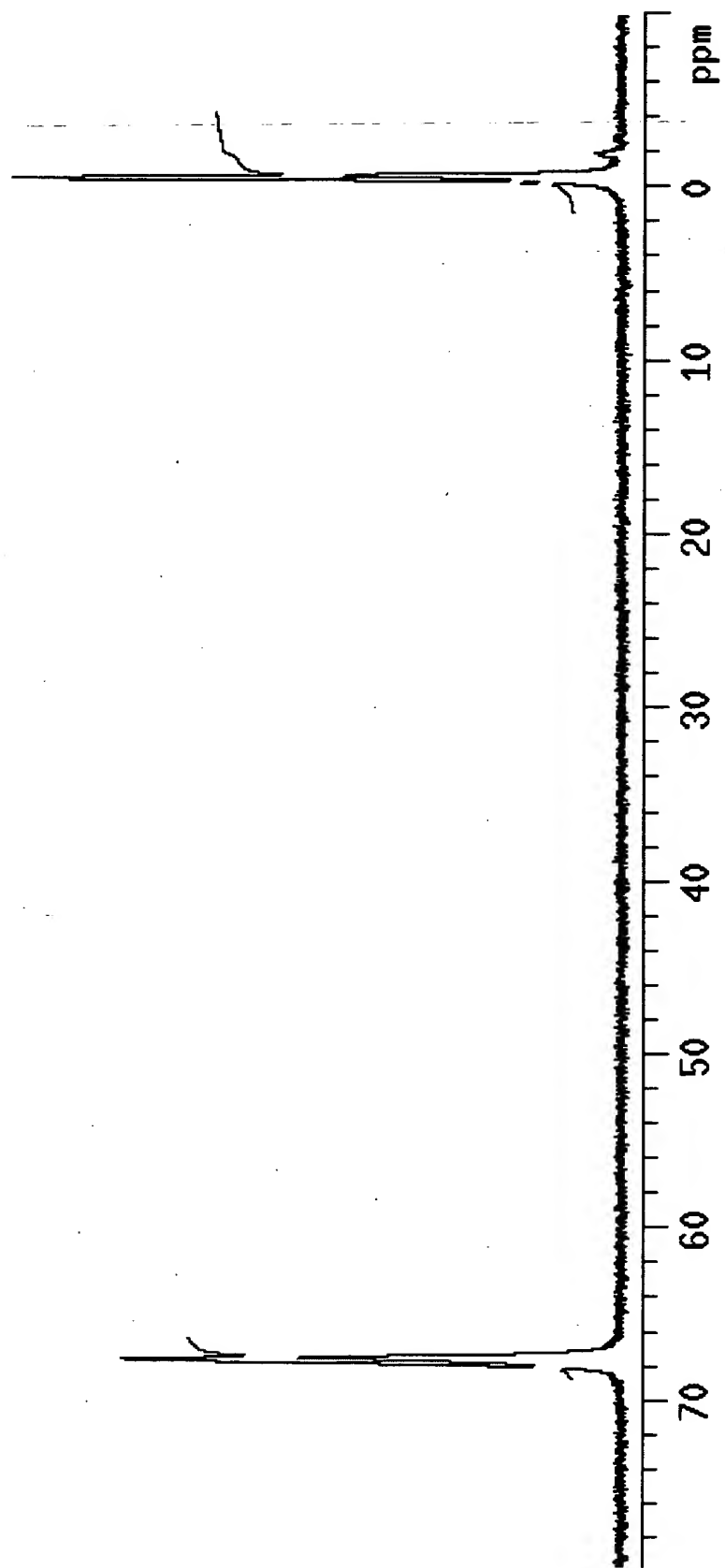
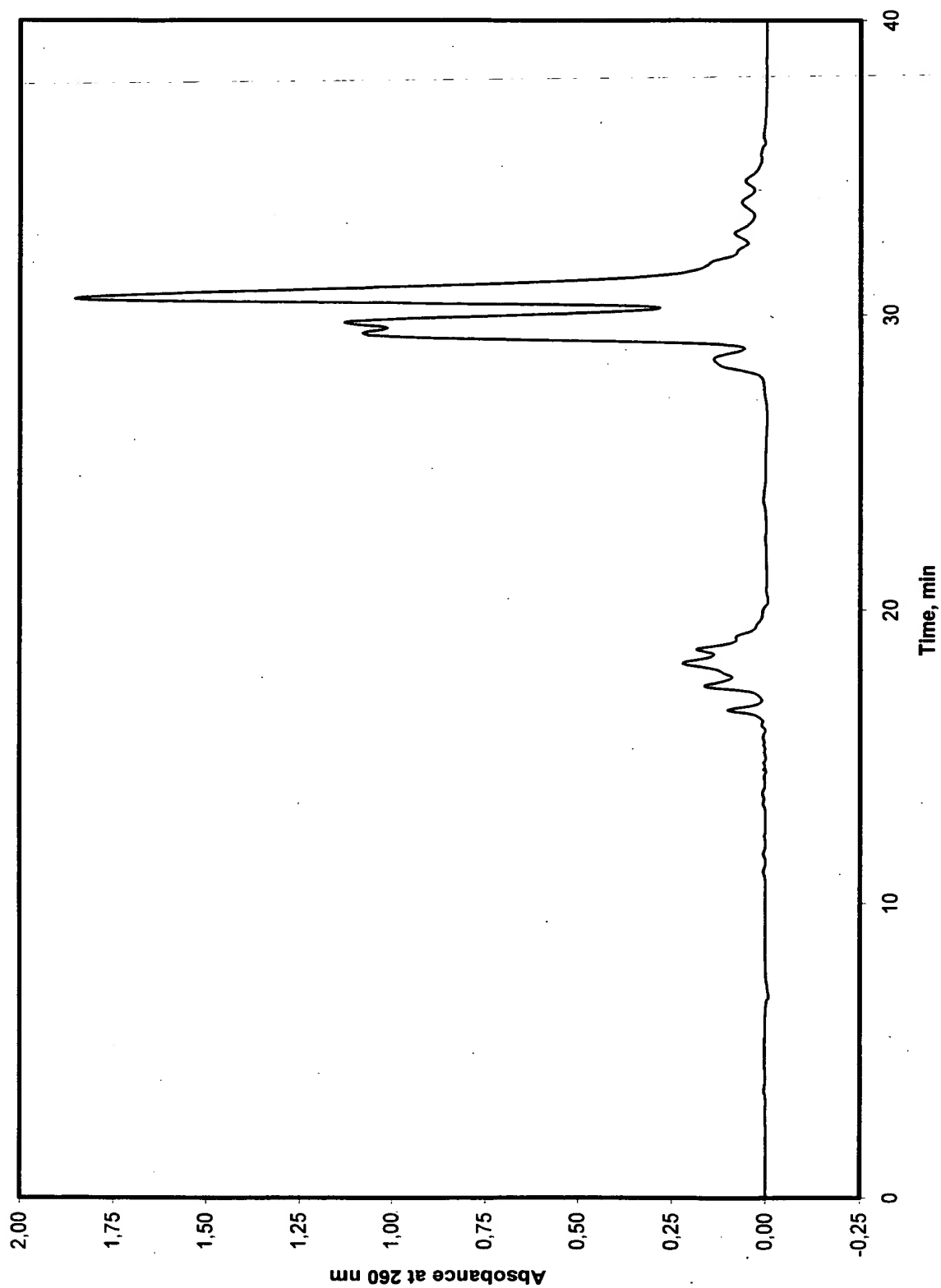


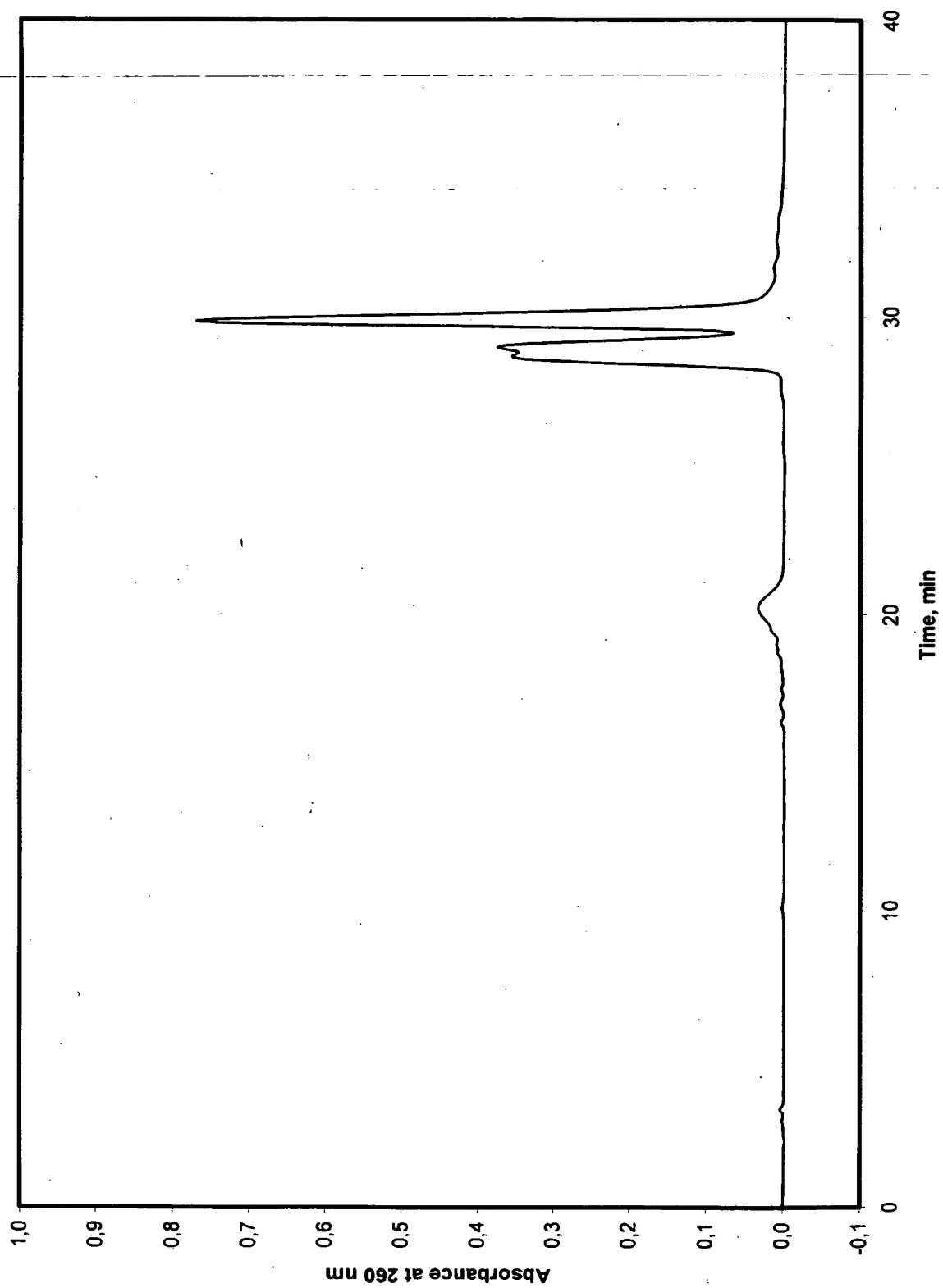
Figure 11.  $^{31}\text{P}$  NMR Spectrum of **8b** in Gel Phase (5% Pyridine in  $\text{CD}_3\text{CN}$  as a liquid phase).





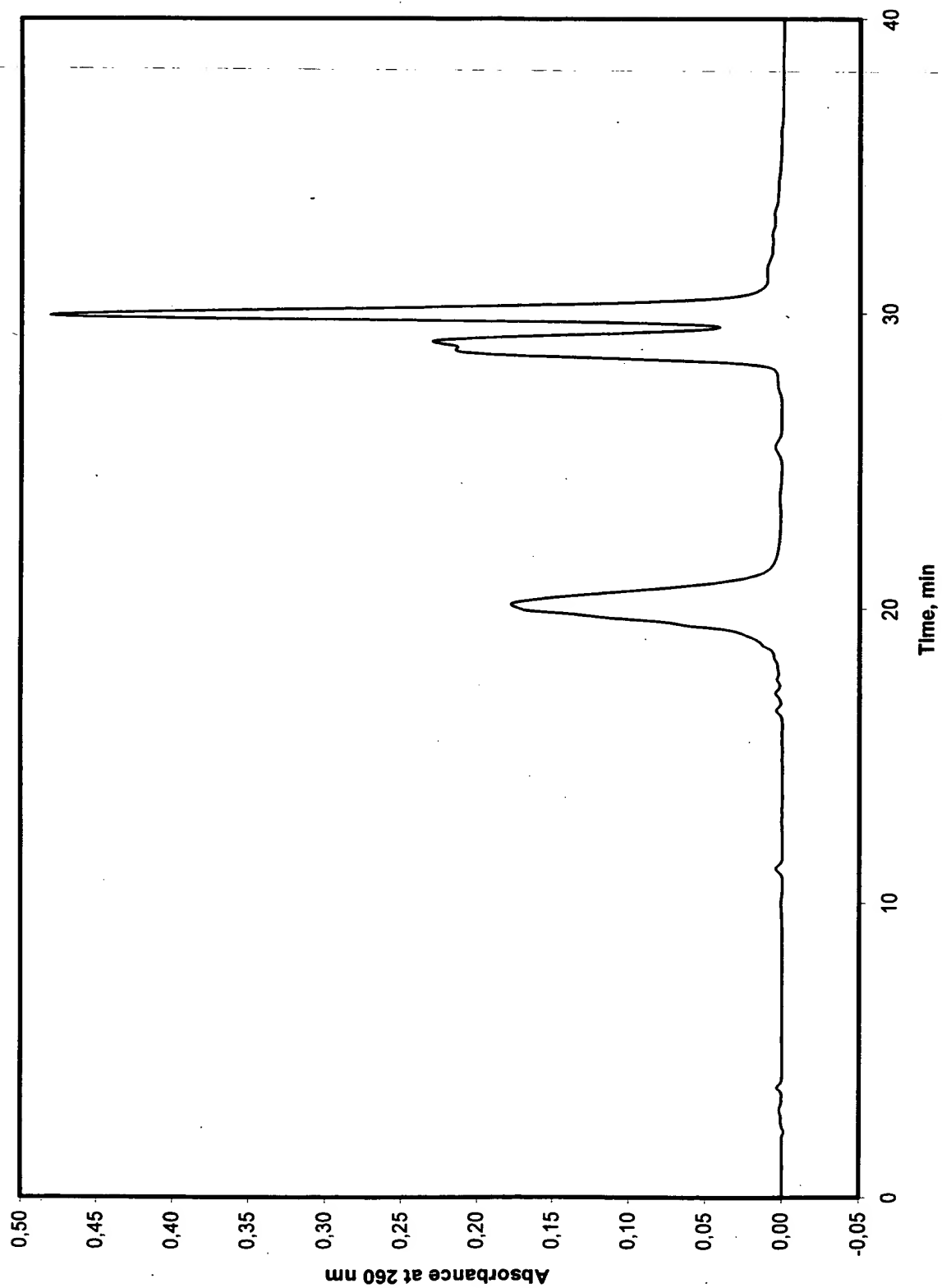
[illegible]

Figure 13. Reverse Phase HPLC Profile for Oligonucleotide **16a** Obtained Using the Standard Cycle (Crude Deprotection Mixture).



The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) for large values of the parameter  $\epsilon$ . It is shown that the solutions of the system (1) for large values of  $\epsilon$  are close to the solutions of the system (2). The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) for small values of the parameter  $\epsilon$ . It is shown that the solutions of the system (1) for small values of  $\epsilon$  are close to the solutions of the system (3).

Figure 14. Reverse Phase HPLC Profile for Oligonucleotide **18a** Obtained Using the Standard Cycle (Crude Deprotection Mixture).



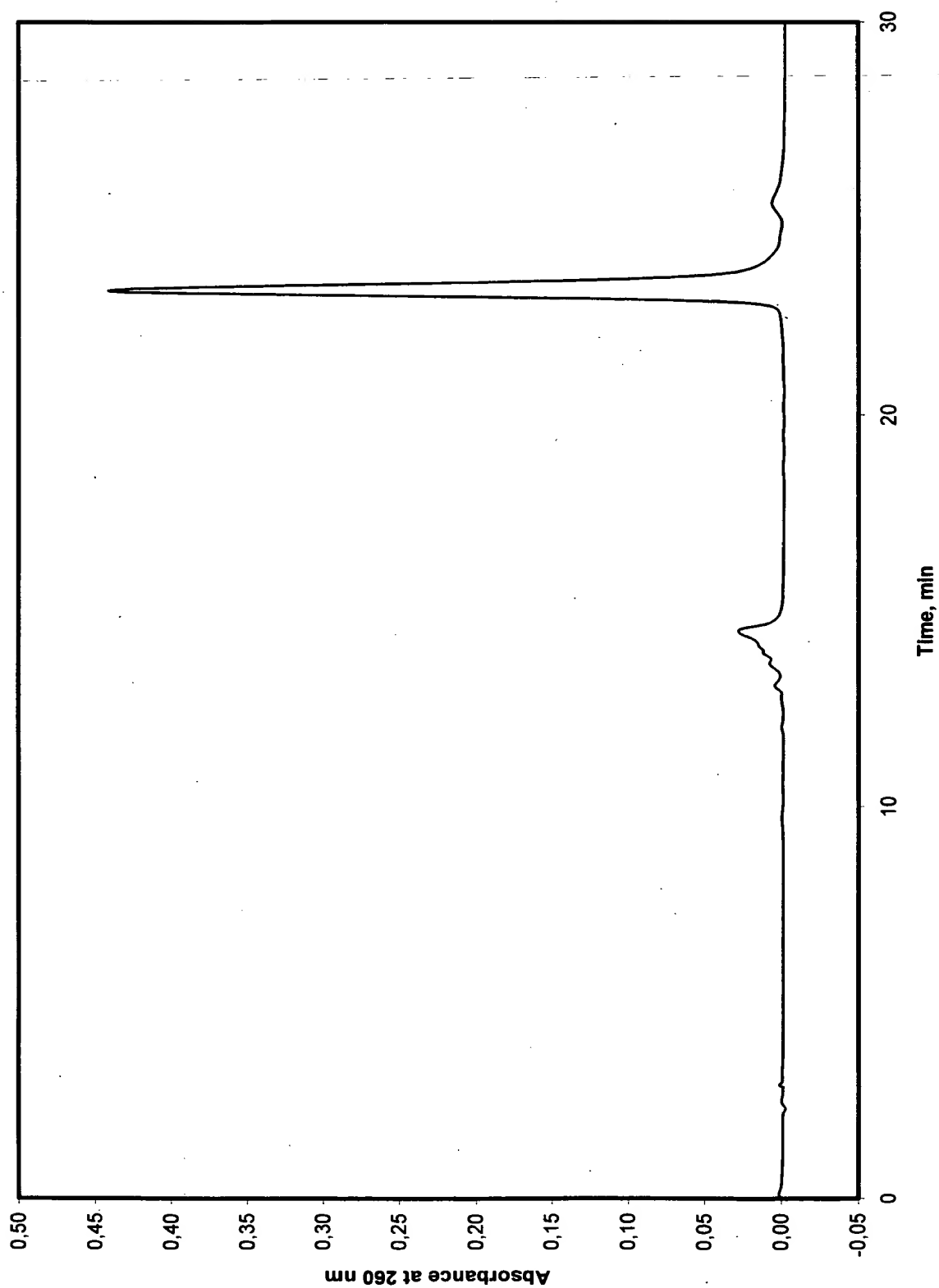


Figure 16. Reverse Phase HPLC Profile for Oligonucleotide 18b Obtained Using the Standard Cycle (Crude Deprotection Mixture).

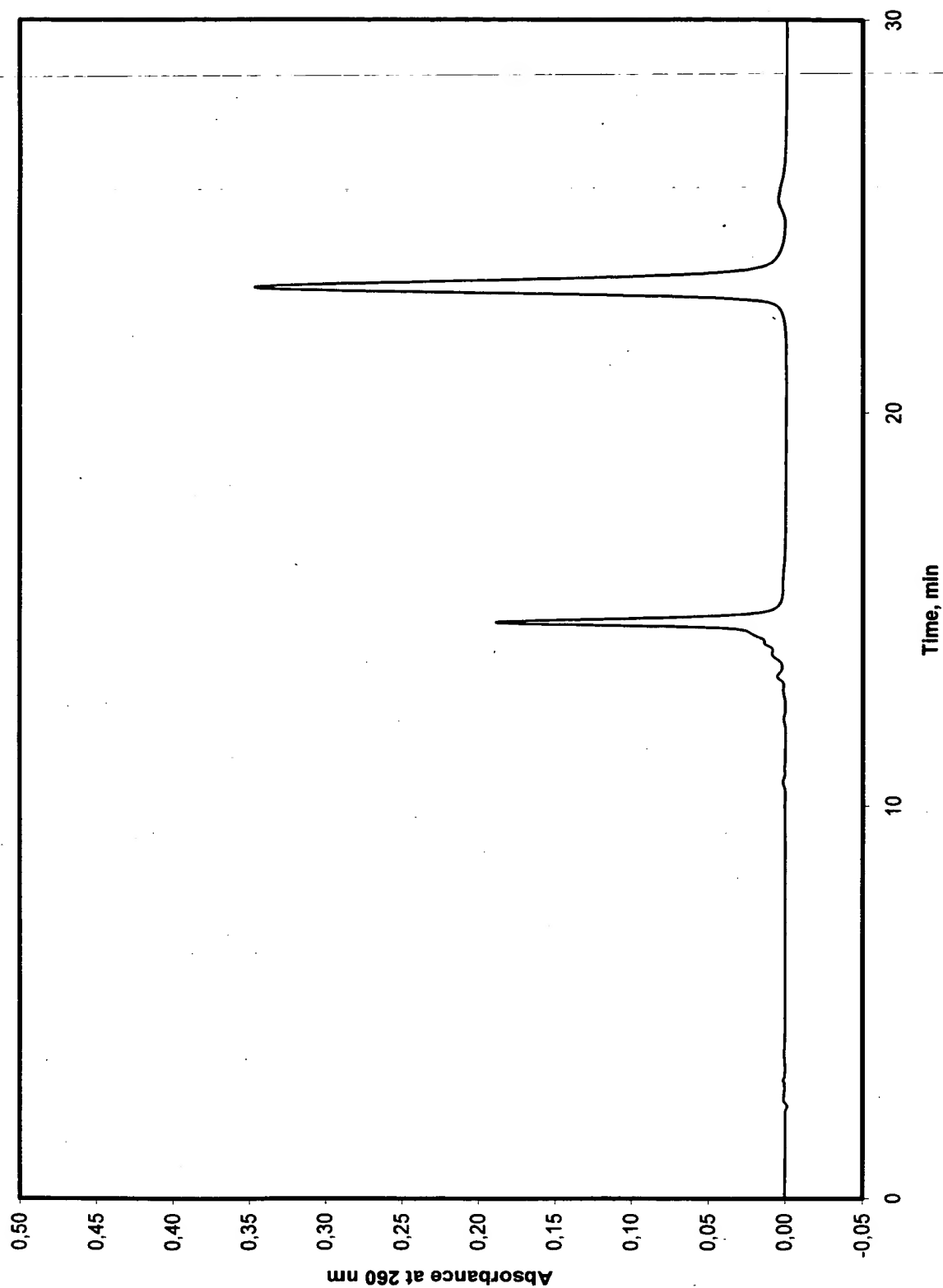
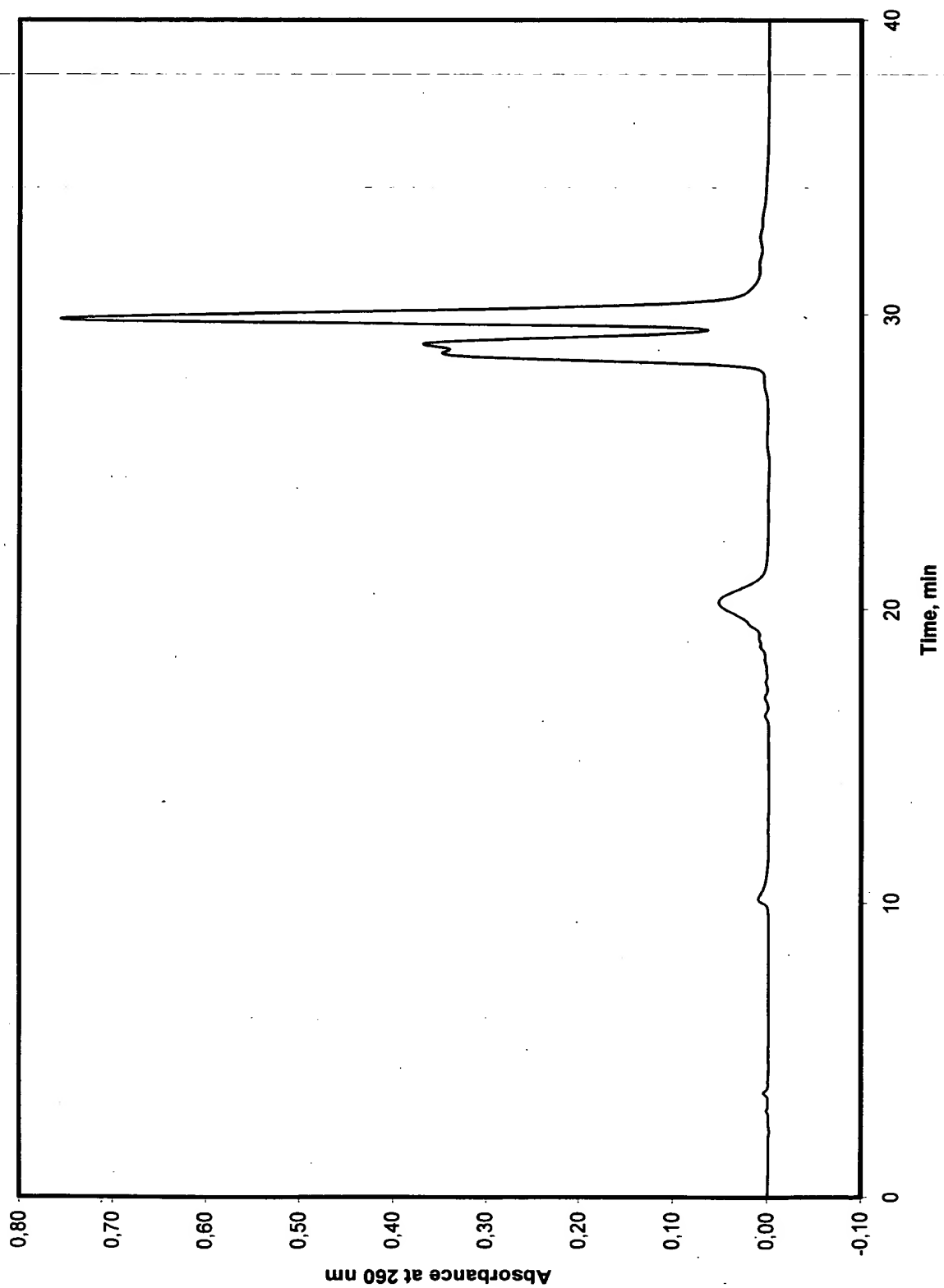




Figure 17. Reverse Phase HPLC Profile for Oligonucleotide 16a Obtained Using the Optimized Cycle (Crude Deprotection Mixture).





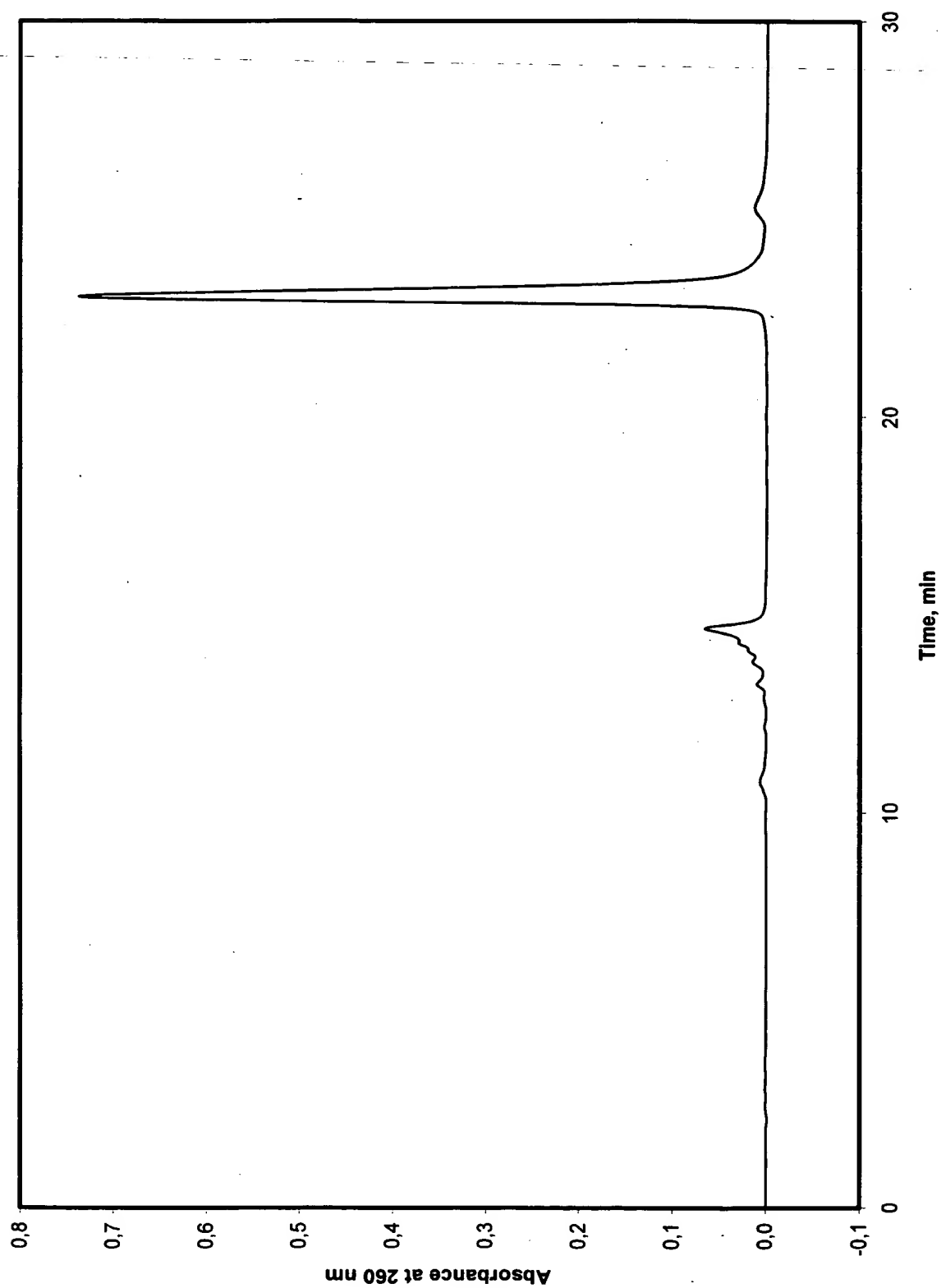


Figure 20. Reverse Phase HPLC Profile for Oligonucleotide **18b** Obtained Using the Optimized Cycle (Crude Deprotection Mixture).

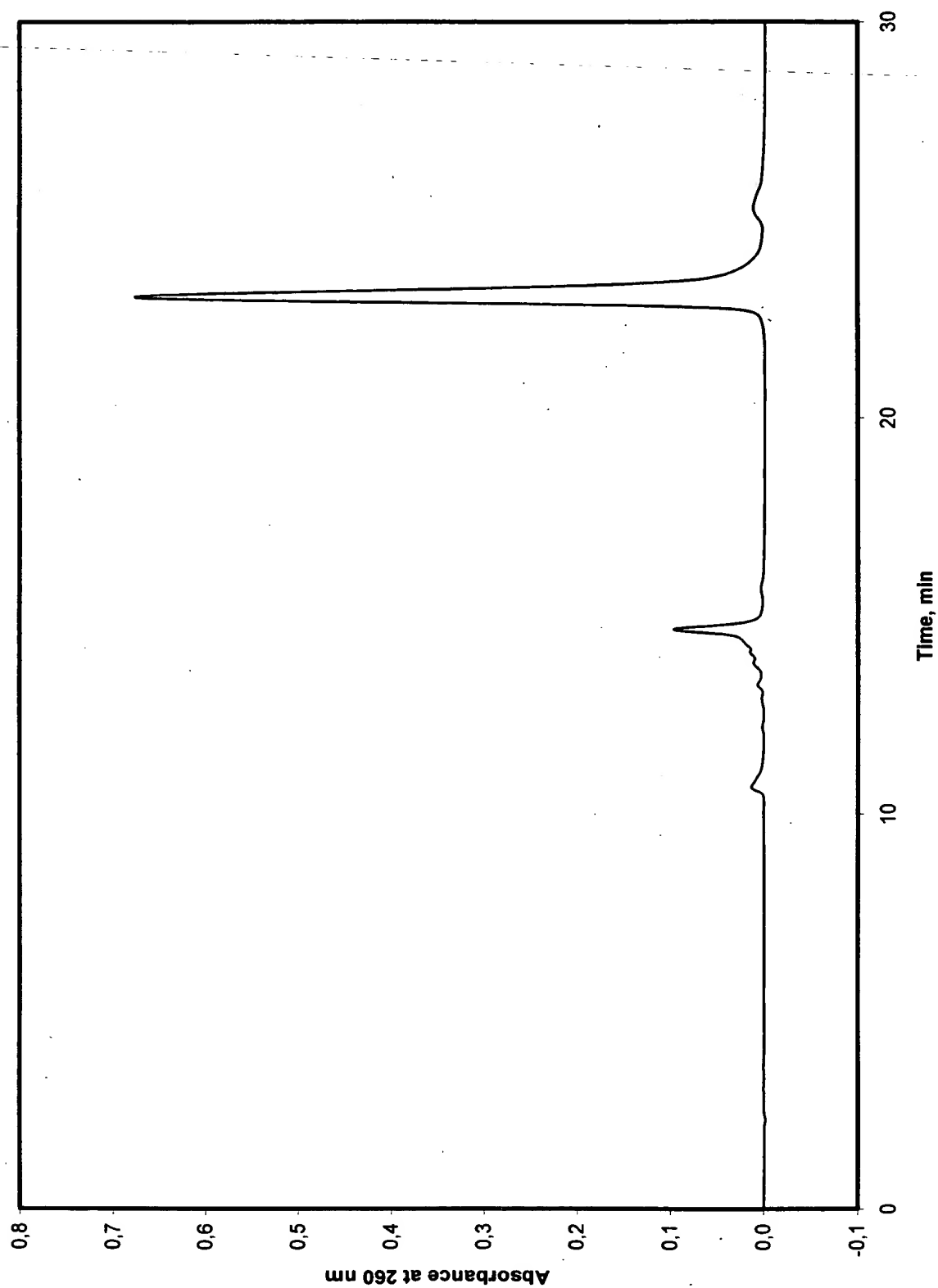


Figure 21. Reverse Phase HPLC Profile for Oligonucleotide 32a Obtained Using the Optimized Cycle (Crude Deprotection Mixture).

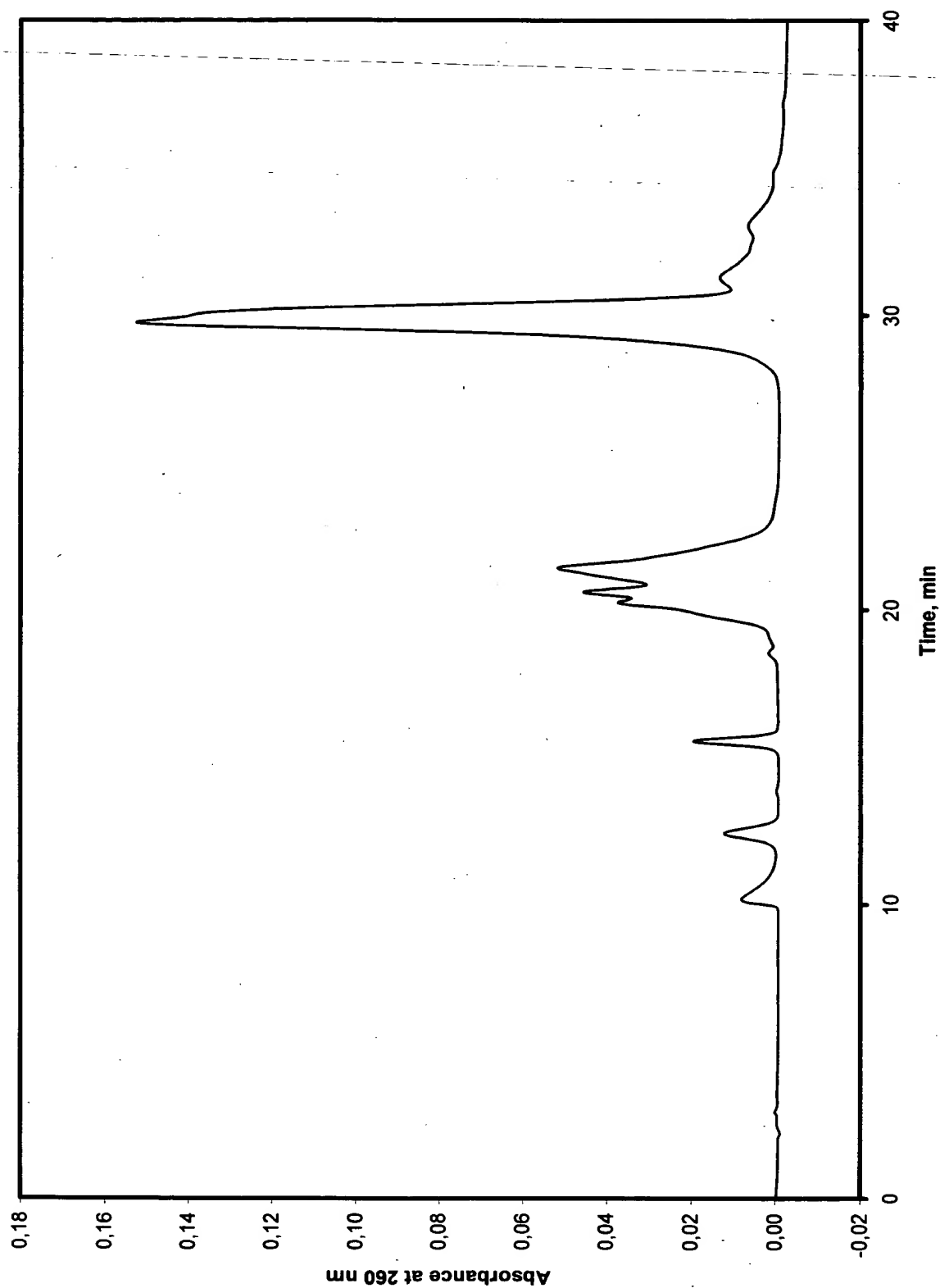


Figure 22. Reverse Phase HPLC Profile for Oligonucleotide **32b** Obtained Using the Optimized Cycle (Crude Deprotection Mixture).

